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selected for doody's core titles 2024 in radiologic technology master the radiography skills needed to produce high quality images every time with straightforward coverage of imaging principles radiographic imaging and exposure 6th edition describes exposure techniques and how to acquire process and display digital images not only does this book help you reduce the need for repeat images it includes problem solving guidelines for troubleshooting situations written by noted educator Terri I Fauber this book also provides the essential knowledge needed to pass the arrt certification exam extensive digital radiography coverage explains how to acquire process and display digital images along with important aspects of data management straightforward focus on imaging and exposure provides the knowledge you need to become a competent radiographer concise easy to understand writing style makes the content easily accessible patient protection alerts highlight the variables that impact patient exposure and how radiographers can control them relationships sections summarize the connections between radiographic concepts calling attention to how they relate to one another mathematical applications sections show how mathematical concepts and formulas are applied in the clinical setting bulleted summaries at the ends of chapters offer a quick review of key concepts review questions are provided in every chapter with answers in the back of the book convenient appendixes include important relationships mathematical applications and patient protection alerts providing a quick reference to important concepts and formulas glossary of key terms defines need to know terminology covered throughout the book new coverage of digital imaging includes two chapters with expanded image processing and new content on data management new updated content reflects the newest curriculum standards outlined by the arrt and asrt and provides everything you need to prepare for the boards and for clinical success new additional digital images are included in the digital imaging chapters as well as the scatter control and exposure technique selection chapters new expanded coverage of digital fluoroscopy includes a thorough explanation of fluoroscopic operational features that impact the patient dose in dynamic imaging fluoroscopy chapter

principles of radiographic imaging an art and a science is a comprehensive reader friendly textbook designed for students and practicing radiologic technologists seeking a thorough understanding of radiography in the digital age each chapter is meticulously structured with outlines key terms objectives summaries review questions and extensive references to ensure

comprehensive coverage of critical content with a special focus on digital imaging terminology ethical considerations and adherence to professional standards this book emphasizes technical competence and professionalism in radiography practice it is organized into five units starting with a foundation of core mathematical and radiation concepts moving to units on radiation protection image production and image analysis and then concluding with coverage of special modalities and systems its comprehensive coverage of imaging and exposure techniques and numerous troubleshooting tips help ensure radiographers create optimal images the first time improving efficiency diagnostic accuracy and patient safety faculty and students will benefit from the wealth of educational resources and practical insights offered in this invaluable resource for radiography education and professional development new chapter on artificial intelligence which is set to become a mandatory component of the radiography curriculum updated digital imaging content reflecting the latest updates in the field aligning with the newest asrt radiography curriculum enhanced informatics content to ensure the most up to date coverage of all related concepts updated workbook with experiments and worksheets to help students master digital concepts physical concepts are clearly explained and illustrated with many high quality full color figures effects of changing parameters on image quality are carefully described and illustrated with numerous images criteria for image analysis are presented to help learners develop analytical skills high quality radiographs are included throughout the text radiation protection concepts and procedures are emphasized for both patients and radiographic personnel chapter end summaries provide a quick reference to critical concepts and developments in the science of radiography numerous troubleshooting tips are included to ensure quality radiographs unique emphasis on the art versus the science of radiography illustrates the broad applications of the technology

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review practice and apply concepts of digital imaging and positioning with chapters corresponding to the chapters in radiographic image analysis 6th edition this practical workbook provides projections and questions to help you hone your imaging and evaluation skills exercises for each procedure ask you to correct positioning errors practice critical thinking and solve positioning challenges adding evaluation images beyond those in the main text this workbook helps you prepare for success on the arrt r certification examination and in radiography practice positioning and technique exercises help with knowledge retention and prepare you for success in radiography practice study questions for each procedure focus on how the

patient should be positioned to obtain an accurately positioned projection and help you prepare for the arrt r certification examination poorly positioned projections not included in the textbook focus on each topic and procedure and ask you to find the cause of the problem questions on improperly positioned projections ask you to evaluate the image and make adjustments when the images are suboptimal answer key to the study questions may be found on the evolve website for radiographic image analysis under student resources new updated content reflects the changes and new information in the 6th edition of radiographic image analysis

reinforce your understanding of diagnostic imaging and sharpen your radiographic skills corresponding to the chapters in principles of radiographic imaging 7th edition this workbook helps you review key concepts and gain the technical knowledge needed to become an informed and confident radiographer more than 75 worksheets include engaging exercises allowing you to assess your comprehension and apply your knowledge to imaging practice new worksheets on artificial intelligence updated worksheets on digital imaging content aligning with the newest asrt radiography curriculum enhanced worksheets on informatics content worksheets updated and aligned with textbook chapters

selected for doody s core titles 2024 in radiologic technology gain the knowledge and skills you need to analyze radiographic images and solve imaging challenges reflecting the latest arrt content specifications radiographic image analysis 6th edition provides a guide to evaluating and adjusting images to produce diagnostic quality radiographs it helps you to identify the error in positioning or technique that may have caused a poor image then shows how to correct the problem so you can reduce the need for repeat radiographs each projection includes an optimal radiograph along with examples of unacceptable images written by radiology expert kathy mcquillen martensen this text builds your critical thinking skills and helps you prepare for success on the arrt certification examination chapter objectives key terms outlines and summaries reinforce the most important material image analysis guidelines for each procedure include accurately positioned projections with labeled anatomy photographs of accurately positioned models discussions of poor positioning and of positioning variations practice projections that demonstrate common procedural errors and more questions to consider help you thoroughly analyze projections spotlights highlighting concepts boxes emphasize the most important information and direct readers to additional information on these topics review questions at the end of chapters help you assess your understanding of the material with answers provided on the evolve website summary tables provide quick access to important data for easy reference bolded key

terms are defined in the expanded glossary ensuring that you understand the terms under discussion new additional images help you to evaluate and correct positioning errors and other images are replaced with more robust digital halftones new revamped chapters on digital imaging incorporate the latest technology new updates reflect the latest artt content specifications

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this book presents a comprehensive introduction to the principles and techniques of radiographic imaging the physics principles that are the foundation of radiography are explained clearly with numerous illustrations examples and solved problems to aid comprehension chapters are organized into six units creating the beam protecting patients and personnel creating the image analyzing the image comparing exposure systems and special imaging systems specialized imaging modalities such as mammography magnetic resonance imaging and computed tomography are explained in individual chapters

this comprehensive guide shows how to reduce the need for repeat radiographs it teaches how to carefully evaluate an image how to identify the improper positioning or technique that caused a poor image and how to correct the problem this text equips radiographers with the critical thinking skills needed to anticipate and adjust for positioning and technique challenges before a radiograph is taken so they can produce the best possible diagnostic quality radiographs provides a complete guide to evaluating radiographs and troubleshooting positioning and technique errors increasing the likelihood of getting a good image on the first try offers step by step descriptions of all evaluation criteria for every projection along with explanations of how to reposition or adjust technique to produce an acceptable image familiarizes technologists with what can go wrong so they can avoid retakes and reduce radiation exposure for patients and themselves provides numerous critique images for evaluation so that readers can study poor images and understand what factors contributed to their production and what adjustments need to be made combines coverage of both positioning and technique errors as these are likely to occur together in the clinical environment student workbook available for separate purchase for more practice with critique of radiographs provides evolve website with a course management platform for instructors who want to post course materials online expanded coverage to include technique and positioning adjustments required by computed radiography pediatric radiography covering radiation

protection and special problems of obtaining high quality images of pediatric patients evaluation criteria related to technique factors which historically account for 60 70 of retakes new chapter on evaluation of images of the gastrointestinal system pitfalls of trauma and mobile imaging to encourage quick thinking and problem solving in trauma situations improved page design and formatting to call attention to most important content

build clarity and confidence with principles of radiographic imaging an art and a science 6th edition preparing students for radiographer radiologist assistant ultrasound technologist and other imaging jobs this book starts with basic math and physics then moves gradually through imaging essentials from creating the beam to advanced modalities image quality factors get ample focus including ir exposure contrast spatial resolution and distortion along with updates on digital radiography systems new imaging technologies and modern instrumentation and because accreditation matters in the job market a friendly tone and visual resources tie lessons together and build confidence to help students master exams of course lab activities a test bank powerpoint slides and the mindtap platform enable you to streamline your course while helping students learn on their terms

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